

ABSTRACT OF THE DISCLOSURE

An apparatus for aiding a machinist in preparing a machining program. A machining simulator simulates a basic machining program. Values of machining variables are obtained during the simulation and stored in a simulation result data memory. A spindle load determiner, a cutting speed determiner, and a rotating speed determiner analyze the machining variable values of a certain machining process to determine the machining efficiency of that process. A navigation information memory stores a plurality of messages for giving advice on how to change the cutting conditions. A message, which depends on the analysis of the machining variable values, is selected from the memory and is shown on a display. Accordingly, an operator can easily modify the basic machining program by following the message on the display, even if the operator does not have much knowledge or experience.

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